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Application No. 10/614,217

Response to Final dated October 10, 2006 Reply to Final Office Action of May 10, 2006 Atty. Docket No. 2855/97

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## LISTING OF THE CLAIMS

1. (Previously Presented) A subambient pressure air bearing slider comprising: a slider body defined by a leading edge, an inner and outer edge extending longitudinally along the slider body, and a trailing edge, said slider body including a leading air bearing surface;

a leading portion extending from the leading edge of the slider, said leading portion having a first height lower than a height of said leading air bearing surface; a subambient pressure region extending between the leading portion and between first and second low-profile members, said low-profile members having a height that is less than the height of said leading air bearing surface wherein a width of a side air bearing surface in a latitudinal direction of the slider is selected to achieve a predetermined flying height sensitivity to camber in the slider.

- 2. (Original) The subambient pressure air bearing slider of claim 1 wherein the height of said first and second low-profile members is equal to said first height.
- 3. (Original) The subambient pressure air bearing slider of claim 2 wherein said slider is to be used in an ultra low flying height environment for a disk drive.
  - (Original) The subambient pressure air bearing slider of claim 1 further comprising: a trailing air bearing surface including a first rectangular portion facing the

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leading edge of said slider and a second rectangular portion facing the trailing edge of said slider.

- 5. (Original) The subambient pressure air bearing slider of claim 4 wherein said second rectangular portion has a width of less than approximately 30 mils.
- 6. (Original) The subambient pressure air bearing slider of claim 5 wherein said second rectangular portions has a width of approximately 5 mils.
- 7. (Original) The subambient pressure air bearing slider of claim 4 wherein a width of said second rectangular portion is limited to mask alignment tolerances in photolithographic process to manufacture said slider.
- 8. (Original) The subambient pressure air bearing slider of claim 4 further comprising:

  a read/write element, wherein said second rectangular portion is disposed over
  said read/write element.
- 9. (Previously presented) A subambient pressure air bearing slider comprising:

  a slider body defined by a leading edge, an inner and outer edge extending longitudinally along the slider body, and a trailing edge, said slider body including a leading air bearing surface;
- a leading portion extending from the leading edge of the slider, said leading portion having a first height lower than a height of said leading air bearing surface;

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a subambient pressure region extending between the leading portion and between first and second low-profile members, said low-profile members having a height that is less than the height of said leading air bearing surface;

at least one side air bearing surface, wherein a placement of said side air bearing surface and a width of said side air bearing surface in the longitudinal direction of the slider are selected to achieve a predetermined flying height sensitivity to crowning in the slider.

- 10. (Cancelled).
- 11. (Cancelled).
- 12. (Original) A method of designing a subambient pressure air bearing slider including a slider body defined by a leading edge, an inner and outer edge extending longitudinally along the slider body, and a trailing edge, said slider body including a leading air bearing surface and a leading portion extending from the leading edge of the slider, said leading portion having a first height lower than a height of said leading air bearing surface, the method comprising:

selecting a width, in a longitudinal direction for the slider body, of a side air bearing surface and a position for said side air bearing slider to achieve a predetermined flying height sensitivity to crowning in the slider.

13. (Original) The method of claim 12 wherein said selecting operation further comprises selecting a width, in the longitudinal direction for the slider body, of a trailing air bearing surface

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to achieve said predetermined flying height sensitivity to crowning in the slider.

14. (Original) The method of claim 13 further comprising:

selecting a width, in a lateral direction for the slider body, of said side air bearing surface to achieve a predetermined flying height sensitivity to camber in the slider.

- 15. (Original) The method of claim 14 wherein said flying height sensitivities to crown and camber offset each other for the slider.
- 16. (Original) The method of claim 14 further comprising: positioning two low-profile members behind said leading air bearing surface and said leading portion to define a subambient pressure region.
- 17. (Original) The method of claim 16 wherein said trailing air bearing surface includes a leading rectangular portion and a trailing rectangular portion, the method further comprising: selecting a width, in the lateral direction for the slider body, of said trailing rectangular portion of the trailing air bearing surface to achieve a desired flying height for said slider.
- 18. (Previously presented) The subambient pressure air bearing slider of claim 9 wherein the height of said first and second low-profile members is equal to said first height.

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- 19. (Previously presented) The subambient pressure air bearing slider of claim 18 wherein said slider is to be used in an ultra low flying height environment for a disk drive.
- 20. (Previously presented) The subambient pressure air bearing slider of claim 9 further comprising:

a trailing air bearing surface including a first rectangular portion facing the leading edge of said slider and a second rectangular portion facing the trailing edge of said slider.

- 21. (Previously presented) The subambient pressure air bearing slider of claim 20 wherein said second rectangular portion has a width of less than approximately 30 mils.
- 22. (Previously presented) The subambient pressure air bearing slider of claim 21 wherein said second rectangular portions has a width of approximately 5 mils.
- 23. (Previously presented) The subambient pressure air bearing slider of claim 20 wherein a width of said second rectangular portion is limited to mask alignment tolerances in photolithographic process to manufacture said slider.
- 24. (Previously presented) The subambient pressure air bearing slider of claim 20 further comprising:

a read/write element, wherein said second rectangular portion is disposed over

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said read/write element

25. (Previously presented) The subambient pressure air bearing slider of claim 9 wherein said low-profile members are not air bearing surfaces.